[rubber stamp]

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

Lucas, Laurent THALES Intellectual Property 31-33, Avenue Aristide Briand F-94117 Arcueil Cedex FRANCE Floor Francis 25 Ser 2004

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT

(PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of mailing

(day/month/year)

13.04.2004

Applicant's or agent's file reference 62779

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

28.03.2003

29.03.2002

Applicant CAMECA et al.

PCT/FR 03/00987

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international
 preliminary report on patentability and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the

Where a translation of the international application must be furnished to an elected Office, that translation must contain a furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The Applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purpose of international preliminary examination and that "any is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA

European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Authorized officer

Comia Costa, M

Tel. +49 89 2399-7391



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or Agent's file reference				See Notification of Transmittal of International Examination Report (Form PCT/IPEA/416)			ional Preliminary	
	ernational T/FR 03/0		ation No.	International filing date (day/month/year) 28.03.2003		Priority date (day/month/year) 29.03.2002		
Inte H0	ernational 1J37/256	Patent	Classification (IPC) or no	ational classification an	ational classification and IPC			
	olicant MECA et a	al.						
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and it transmitted to the applicant according to Article 36. 							
2.	This RE	This REPORT consists of a total of 4 sheets including this title page.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have beer amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Instruction 607 of Administrative Instructions of the PCT).							which have been (see Rule 70.16
	These annexes consist of a total of 7 sheets.							
3.	This report contains indications relating to the following items:							
	1	\boxtimes	Basis of the report					
	II		Priority					
	Ш		Non-establishment of o	opinion with regard to n	ovelty, inv	ventive step an	d industrial applicability	
	IV Lack of unity of invention							
	V Reasoned statement according to Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applica citations and explanations supporting such statement					trial applicability;		
VI				1				
	VII Certain defects in the international application							
	VIII Certain observations on the international application							
	·							
	of submis 0.2003	sion o	f the demand		Date of 0 13.04.20	completion of ti	nis report	
Nam	Name and mailing address of the IPEA/				A			
European Patent Office D-80298 Munich						ed officer:		
Tel. +49 89 2399 - 0 Tx: 52365 Fax: +49 89 2399 - 4465				6 epmu d	Gianni, G Telephone No. +49 89 2399-2660			





 Basis of the repor
--

2.

3.

1. This report has been drawn up on the basis of the following elements (the replacement sheets received by the receiving office in response to an invitation according to Article 14 are considered in the present report as "originally filed" and are not annexed to the report as they contain no amendments (Rules 70.16 and 70.17).):

	De	Description, pages:							
1, 4-13 as originally filed									
	2,	3, 3bis	received on	01.03.2004	with the letter of	26.02.2004			
	CI	aims, No.:	:						
	1-1	6	received on	01.03.2004	with the letter of	26.02.2004			
	Drawings, sheets:								
	2/4	-4/4	as originally filed						
	1/4		received on	01.03.2004	with the letter of	26.02.2004			
	With regard to the language , all the elements marked above were available or furnished to this Authorit in the language in which the international application was filed, unless otherwise indicated under this item								
	The	ese elemei	nts were available	or furnished to this	Authority in the following	g language	which is:		
With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:									
	contained in the international application in written form.								
		filed together with the international application in computer readable form.							
		furnished subsequently to this Authority in written form.							
		furnished subsequently to this Authority in computer readable form.							
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							



International application No. PCT/FR 03/00987

4.	The amendments have resulted in the cancellation of:								
	☐ the description, pages								
	☐ the claims, nos.								
		the drawings,	sheets						
5.		This report has been written disregarding (some of) the amendments, which were considered as going beyond the description of the invention, as filed, as is indicated below (Rule 70.2(c)): (All replacement sheets comprising amendments of this nature should be indicated in point 1 and attached to this report)							
attached to this report).									
6.	Addi	dditional observations, if necessary:							
V.	Reas appl	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial pplicability; citations and explanations supporting such statement							
1. Statement									
	Novelty Inventive Step Industrial Applicability		Yes: No:	Claims Claims					
			Yes: No:						
			Yes: No:	Claims 1-16 Claims					
2.	Citations and explanations								

see separate sheets



As regards Point V

Technical field: The application relates to a device for measuring the X-ray emission produced by an object exposed to an electron beam.

Prior art: Document D (US-A-3 760 180) discloses an analysis device comprising a spectrometer in which the electrons emitted by the part under examination are separated according to their energy.

Objective: Increase the sensitivity and the resolution of the devices and reduce the time to establish a diagnostic regarding the part to be examined.

Solution: Establish a zone in which the electrons are subjected to a substantially zero electric field, in which it is possible, in the following order, to limit the diameter of the beam, to deflect the beam, to measure it and to focus it without modifying the energy of the beam. Evaluation: By subjecting the beam to a retarding magnetic field, the action of which is to decelerate the electrons and therefore reduce their energy, it is possible to adjust the value of the impact energy of the beam on the specimen and therefore its depth of penetration. This also results in an increase in the electron current density, which consequently increases the sensitivity of the device. The combination of the various elements of the claimed device seems to produce a result that goes beyond the sum of their individual contributions, this result making it possible to obtain a narrow electron beam, exhibiting little dispersion, and a sensitivity compatible with the fineness of the layers analyzed.